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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/507,362	09/20/2004	Tanja Schneider	258195US0PCT	3815
22850	7590 12/07/2006		EXAMINER	
C. IRVIN MCCLELLAND OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			FORTUNA, ANA M	
1940 DUKE STREET		ART UNIT	PAPER NUMBER	
ALEXANDRI	ALEXANDRIA, VA 22314		1723	

DATE MAILED: 12/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
Office Action Summary	10/507,362	SCHNEIDER ET AL.		
omec Action Guinnary	Examiner	Art Unit		
The MAII INO DATE of this account of	Ana M. Fortuna	1723		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	L. nely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 30 Second 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under EDisposition of Claims	action is non-final. ace except for formal matters, pro			
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4) Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the orange of the correction and access and access applicant may not request that any objection to the orange of the correction and access access and	election requirement. r. epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.		
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/30/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te		

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DETAILED ACTION

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilkinson (US 5,942,120), and alternative Wilkinson ('120) in view of Applicants admissions. Patent '120 discloses the membrane and the method of making the membrane from hydrophobic polymer and adding a hydrophilic copolymer to modify the hydrophobic membrane character to hydrophilic (abstract, column 2, last paragraph bridging column 3, lines 1-68). The membrane is made by adding a water-insoluble copolymer to the membrane solution (column 4, lines 53-68, column 5, lines 1-68, and column 9, examples 1 and 2). The copolymer includes N-vinylpirrolidone, and alkylphenoxy polyalkelene glycol acrylate with the alkyl radical containing between 5 to 20 carbon atoms; monomers such as PEG20 nonyl phenyl ether, and vinyl monomers of a polyoxyalkylene alkyl phenyl ethers and their mixtures are also disclosed (see column 3, entire column; column 5, lines 25-68, and column 6, lines 1-40). The ratio of monomers composition in the copolymer is also disclosed (see column 3, line 24, and lines 40-60). The hydrophobic polymers includes polycarbonate, polysulfones, cellulosic, polyamide polymers (see column 3, 60-64), and the percentage of the copolymer in the membrane is between 1 to 20 % (column 3, lines 64-68). The current claims are directed to copolymers including the claimed monomeric units, e.g.

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vinyllactam (N-pirrolidone), and the vinyl esters of carboxylic acids (b4) as in the present invention (see column 5, lines 25-53). The monomers ratio in patent '120 is not exactly disclosed in the present invention however the range of 99 % and 1 % for the second monomer (hydrophobic monomer) percentage substantially overlap.

It would have been obvious to one skilled in this art at the time this invention was made to select a particular desire range of the monomers (hydrophilic/hydrophobic) depending on the degree of wetability (or hydrophilic properties) to be imparted to the hydrophobic base membrane polymer. The skilled in the art can expect a higher hydrophilic degree when the content of the hydrophilic monomer in the copolymer is higher.

Regarding claims 7 and 11, the modification of hydrophobic polymeric membranes by the addition f o polyvinylpirrolidone is old in the art and recognized by Applicant (see specification column 2, second paragraph). The addition of further hydrophilic additives, e.g. to further improve the membrane hydrophilic properties, to act as pore former and/or to adjust the polymer solution viscosity, it would have been obvious to the skilled artisan. Applicant also admits that the process of making theme bane is known in the art (see page 2, last paragraph).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Reference patens 7,056,756, and 4,720,345 also teach treating hydrophobic polymers with copolymers or mixtures of the listed monomers.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ana M. Fortuna whose telephone number is (571) 272-1141. The examiner can normally be reached on 9:30-6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L. Walker can be reached on (571) 272-1151. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

na M Fortuna

Primary Examiner

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November 26, 2006